

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently amended) An ultrasonic transmitter capable of functioning as an electronic badge, the ultrasonic transmitter comprising:

a ~~transmitter power source;~~

a frequency oscillator operating at an ultrasonic frequency;

a microcontroller assembly having an encoder capable of encoding a predetermined value, a serializer capable of serializing the encoded value, a parity encoder between the encoder and the serializer, and a micro-modulator capable of micro-modulating ~~the ultrasonic frequency of the oscillator with the serialized encoded value~~ using the ultrasonic frequency; and

an ultrasonic transducer capable of transmitting the encoded value as a micro-modulated ultrasonic signal.

2. (Cancelled)

3. (Currently amended) The ultrasonic transmitter according to claim 1, further comprising:
an operational status indicator.

4. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the encoder has a separate memory area capable of storing rewritable predetermined values.

5. (Currently amended) The ultrasonic transmitter according to claim 1, further comprising:
configurable encoder operation switches.
6. (Currently amended) The ultrasonic transmitter according to claim 1, further comprising
a low battery detector.
7. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the
oscillator is designed to operate at an approximate frequency of 40 KHz.
8. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the micro-
modulator shifts the ultrasonic frequency by more than 1.6%.
9. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the
transmitter is wearable.
10. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the
transmitted signal is randomly transmitted.
11. (Currently amended) The ultrasonic transmitter according to claim 1, wherein the
predetermined value is serialized into 16 bits.
12. (Currently amended) An ultrasonic locator system, comprising:
a fixed location ultrasonic receiver;

a hub controller capable of receiving signals demodulated by the fixed location ultrasonic receiver;

a system controller coupled to the hub controller; and

an ultrasonic transmitter capable of functioning as an electronic badge, the ultrasonic transmitter comprising including:

a transmitter power source;

an ultrasonic frequency oscillator [[:]] ,

a microcontroller assembly having an encoder capable of encoding a predetermined value,

a serializer capable of serializing the encoded value,

a parity encoder between the encoder and the serializer,

a micro-modulator capable of micro-modulating an ultrasonic frequency of the oscillator with the serialized encoded value [[:]] , and

an ultrasonic transducer capable of transmitting a micro-modulated ultrasonic signal to the fixed location ultrasonic receiver[[:]]

~~a fixed location ultrasonic receiver;~~

~~a hub controller capable of receiving signals demodulated by the fixed location ultrasonic receiver[[:s]]; and~~

~~a system controller coupled to the hub controller.~~

13. (Currently amended) The ~~transmitter~~ ultrasonic locator system according to claim 12, further comprising:

a database server coupled to the system controller.

14. (Currently amended) The ~~transmitter~~ ultrasonic locator system according to claim 12, wherein the system controller is a computer system.

15.-25. (Cancelled)

26. (New) The ultrasonic transmitter according to claim 1, further comprising a power source coupled with the ultrasonic transmitter.

27. (New) The ultrasonic locator system according to claim 12, further comprising a power source coupled with the ultrasonic transmitter.